

Component Essentials

Part of the IJI Essential Unified Process Practice Pack



The Essential Unified Process (EssUP) focuses on the essentials to provide a pre-built assembly of eight easy-to-use practices that can be mixed and matched and used in different circumstances – all of them compatible with agile values and thinking. Use-case driven, iterative, component-based and architecturally-centric the practices provide an extensible framework for the addition of further practices.

Practice Overview



Use this practice to develop complex systems as assemblies of smaller and simpler components. This practice allows teams to:

- Manage the complexity associated with the development of software systems.
- Develop complex systems in an extensible and maintainable fashion.
- Develop and verify the separate parts of a system independently and in parallel.
- Identify opportunities for reuse and exploit reusable components.
- Utilize third-party frameworks and component libraries.

Things to Work With



This practice involves the production of a number of implementation and test elements:

 ${\mbox{ \bullet}}$ A design model of the system, identifying the set of required components.

- A description of each component, including its required behavior and interfaces.

- Source code and unit tests for each component.
- Integrated builds of the component system.

Creating winning teams.

www.ivarjacobson.com

Asia +86 10 824 86030 info-asia@ivarjacobson.com

Copyright 2016 Ivar Jacobson International

Europe +44 (0) 207 953 9784 info-eur@ivarjacobson.com Americas +1 703 434 3344 info-usa@ivarjacobson.com



Key Competencies



This practice requires the team to be skilled in software design, implementation, unit testing and integration testing. This requires the competencies listed in the image on the left.

Things to Do

The practice starts by identifying the set of components that are needed to meet the system requirements as captured outside this practice in the Understand the Requirements activity space.

It continues by defining the components, including their interfaces and unit tests and developing the components to implement the interfaces and pass these tests. It concludes by integrating the software system and then supporting deployment as the components are released.



Creating winning teams.

Copyright 2016 Ivar Jacobson International

Europe +44 (0) 207 953 9784 info-eur@ivarjacobson.com Americas +1 703 434 3344 info-usa@ivarjacobson.com www.ivarjacobson.com

Asia +86 10 824 86030 info-asia@ivarjacobson.com